less devoid of contents, and in the different species show decided variation in arrangement and number. Their origin is evidently due to the separation of certain cell-tissues and their later disintegration.—Dr. G. **Harker**: The temperature of the vapour arising from boiling saline solutions. It is shown that the temperature of the vapour can be obtained well over 100° C. by boiling the solution in a hypsometer, either by a Bunsen flame or by admission of steam from water boiled in a separate vessel. With a solution of calcium chloride boiling normally at 115° C. a temperature of 106° C. was obtained for the vapour at a point 10 in. above the boiling solution. It is claimed that under the conditions of the experiment superheating could not take place.—J. H. **Maiden**: Notes on two Acacias. (1) The first is a spreading shrub, which may, however, assume an erect habit and become 10 ft. high. Its affinities are shown in that it was formerly known as *Acacia doratoxylon* var. *angustifolia*. It differs from that species in its habit, in its smaller size, in the short sessile flower-spikes, which are axillary and not racemose, and in the hairy ovary. It is found chiefly in the New England granite country from Howell, near Tingha, as far north as Stanthorpe and the Toowoomba district in Queensland. (2) The second wattle is submitted as a form or race of *Acacia pycnantha*, Benth., or a new species. In its ordinary morphological characters it resembles closely the species named, but there are important differences in the seedlings, the percentage of tannin in the bark, and other characters which lead the author to propose it as a new species. The type comes from Jerrabomberra, in the Federal Territory, near Queanbeyan.—E. **Cheel**: A native tea-tree, *Leptospermum flavescens* var. *grandiflorum*. This plant occurs in the deep creeks and river-beds from Penrith, extending to the Blue Mountains on the western line, and from Douglas Park to Braidwood on the southern line and tablelands. It was suggested that the plants were quite different from any other species, and the oil obtained from the leaves by Mr. A. R. Penfold tends to confirm this view.

Books Received.

The Foundations of Chemical Theory. By Prof. R. M. Caven. Pp. viii+266. (London: Blackie and Son, Ltd.) 12*s*. 6*d*. net.

A Physician's Anthology of English and American Poetry. Selected and arranged by Dr. C. A. Wood and Dr. F. H. Garrison. Pp. xxiii+346. (London: Oxford University Press.) 8*s*. 6*d*. net.

Les Hommes Fossiles: Eléments de Paléontologie Humaine. By Prof. M. Boule. Pp. xi+491. (Paris: Masson et Cie.) 40 francs.

Penrose's Annual. Volume 23 of the Process Year Book and Review of the Graphic Arts. 1921. Edited by W. Gamble. (London: P. Lund, Humphries and Co., Ltd.; Bradford: The Country Press.) 10*s*. 6*d*. net.

Personal Beauty and Racial Betterment. By Prof. K. Dunlap. Pp. 95. (London H. Kimpton.) 6*s*. net.

Practical Dental Metallurgy. By Prof. J. D. Hodgen. Fifth edition, completely revised. Pp. 436. (London: H. Kimpton.) 15*s*. net.

Lubricating and Allied Oils: A Handbook for Chemists, Engineers, and Students. By E. A. Evans. (The Directly-Useful Technical Series.) Pp. xv+128. (London: Chapman and Hall, Ltd.) 9*s*. 6*d*. net.

Science Masters' Association: Oxford Meeting, January 5–6, 1921. Practical Suggestions towards the Study of Crystals in Schools. By T. V. Barker. (Oxford: The Holywell Press.) 1*s*. net.

Paläontologie und Abstammungslehre. By Prof. K. Diener. Zweite auflage. Pp. 137. (Berlin and Leipzig: W. de Gruyter and Co.) 1*s*. 9*d*.

The Theory of Direct-Current Dynamos and Motors. By J. Case. Pp. xiii+196. (Cambridge: W. Heffer and Sons, Ltd.) 15*s*. net.

An Introduction to the Chemistry of Plant Products. By Dr. P. Haas and T. G. Hill. Vol. i.: On the Nature and Significance of the Commoner Organic Compounds of Plants. Third edition. Pp. xiii+414. (London: Longmans, Green and Co.) 16*s*. net.

A Text-Book of Physics. By Dr. W. Watson. Seventh edition, revised by H. Moss. Pp. xxvi+976. (London: Longmans, Green and Co.) 21*s*. net.

Department of Applied Statistics (Computing Section), University of London, University College. Tracts for Computers. Edited by Karl Pearson. No. ii.: On the Construction of Tables and on Interpolation. Part i.: Uni-variate Tables. By Karl Pearson. Pp. 70. 3*s*. 9*d*. net. No. iii.: On the Construction of Tables and on Interpolation. Part ii.: Bi-variate Tables. By Karl Pearson. Pp. 54. 3*s*. 9*d*. net. (London: Cambridge University Press.)

General Practice and X-Rays: A Handbook for the General Practitioner and Student. By Alice V. Knox. Pp. xiv+214+xxxii plates. (London: A. and C. Black.) 15*s*. net.

The New Hazell Annual and Almanack for the Year 1921. Thirty-sixth Year of Issue. Pp. lvi+823. (London: H. Frowde and Hodder and Stoughton.) 7*s*. 6*d*. net.

Clouds: A Descriptive Illustrated Guide-Book to the Observation and Classification of Clouds. By G. A. Clarke. Pp. xvi+136+40 plates. (London: Constable and Co., Ltd.) 21*s*. net.

The Raw Materials of Perfumery: Their Nature, Occurrence, and Employment. By E. J. Perry. Pp. ix+112. (London: Sir I. Pitman and Sons, Ltd.) 3*s*. net.

Diary of Societies.

THURSDAY, JANUARY 20.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. A. Harden: Biochemistry (Vitamines).

ROYAL SOCIETY, at 4.30.—Sir Robert Hadfield, Bart., S. R. Williams, and I. S. Bowen: The Magnetic Mechanical Analysis of Manganese Steel.—Dr. W. S. Tucker and E. T. Paris: A Selective Hot-wire Microphone.—E. A. Milne and R. H. Fowler: Siren Harmonics and a Pure Tone Siren.—Prof. L. V. King: The Design of Diaphragms capable of Continuous Tuning.

LINNEAN SOCIETY, at 5.—Prof. E. H. C. Walsh: Lhasa and Central Tibet.

ROYAL AERONAUTICAL SOCIETY (at Royal Society of Arts), at 5.—Lord Montagu of Beaulieu: The Cost of Air Ton-miles compared with Other Forms of Transport.

ROYAL SOCIETY OF MEDICINE (Dermatology Section), at 5.

INSTITUTION OF MINING AND METALLURGY (at Geological Society), at 5.30.—R. E. Palmer: Some Observations on Mining by the Opencast or Stripping Method.—E. A. Wraight: The Standardisation of Materials Employed in Mining and Milling Plant.—A. M. Pontie: Notes on the High-level Diamond Deposits of Brazil.

INSTITUTION OF AUTOMOBILE ENGINEERS (London Graduates' Meeting), at 8.—W. H. Wardall: Cylinder and Piston Wear.

CHEMICAL SOCIETY, at 8.—J. V. Backes, R. W. West, and M. A. Whiteley: Quantitative Reduction by Hydriodic Acid of Halogenated Malonyl Derivatives. Part I., The Amides of Sym. Dialkyl and Aryl Substituted Amides of Mono- and Di-bromomalonic Acid.—B. M. Gupta: An Investigation on the Influence of Negative Groups of Different Character on the Reactivity of Hydrogen Atoms Carried by the Same Carbon Atom. Part I.—J. Brönsted: The Influence of Salts upon the Chemical Equilibria in Solution.—H. Hepworth: The Action of the Grignard Reagent on Certain Nitric Esters.—G. T. Morgan and H. D. K. Drew

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Researches on Residual Affinity and Co-ordination. Part III., Reactions of Selenium and Tellurium Acetylacetones.—G. T. Morgan and D. C. Vining: Dihydroxynaphthaldehydes.—G. T. Morgan: Ortho-chlorodinitrotoluenes. Part II.—C. K. Ingold: The Conditions Underlying the Formation of Unsaturated and of Cyclic Compounds from Halogenated Open-chain Derivatives. Part I., Products Derived from *a*-Halogenated Glutaric Acids.—A. Findlay and W. Thomas: Influence of Colloids on the Rate of Reactions involving Gases. I., Decomposition of Hydroxylamine in Presence of Colloidal Platinum.—M. Nierenstein: The Constitution of Catechin. Part III., Synthesis of *aca*Catechin.—K. G. Naik: The Formation and Properties of Dithioketones ($R_2C{=}S{=}S$) and Dithioethers ($R_2S{=}S$). Part I., The Preparation of Certain Dithioketones and Dithioethers.—W. N. Haworth and E. L. Hirst: The Constitution of the Disaccharides. Part V., Cellobiose (Cellose).—S. H. C. Briggs: The Elements Regarded as Compounds of the First Order.—J. D. Morgan and R. V. Wheeler: Phenomena of the Ignition of Gaseous Mixtures by Induction Coil Sparks.—E. J. Williams: Chloroform Solutions of Hydrogen Chloride.—L. J. Hudleston and H. Bassett: Equilibria of Hydrofluosilicic Acid.—E. Newbery: Chlorine Overvoltages.—P. Rây and P. V. Sarkar: Compounds of Hexamethylenetetramine with Complex Metallic Salts and Acids.

RÖNTGEN SOCIETY (in Physics Laboratory, University College), at 8.15.—M. A. Codd: Increasing the Efficiency of X-ray Tubes by an Improved Design of Coil and Interrupter.

FRIDAY, JANUARY 21.

ROYAL SOCIETY OF ARTS (Indian Section), at 4.30.—Prof. R. S. Troup: Indian Timbers.

ROYAL SOCIETY OF MEDICINE (Otology Section), at 5.—T. R. Rodger: Cavernous Sinus Thrombosis.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. A. Keith: The Principles of Craniology applied to Clinical and Racial Problems.

INSTITUTION OF MECHANICAL ENGINEERS, at 6.—H. J. Smith: The Mechanical Loading of Ships.

INSTITUTION OF ELECTRICAL ENGINEERS (at Faraday House, Southampton Row), at 6.30.—H. J. Howard: Electric Welding.

GEOLOGISTS' ASSOCIATION (at University College), at 7.30.—G. Barrow: The Origin and Age of Post-Eocene Brick-earths near London.

JUNIOR INSTITUTION OF ENGINEERS (at Caxton Hall), at 8.—B. H. Joy: Motor Yachts.

ROYAL SOCIETY OF MEDICINE (Electro-Therapeutics Section), at 8.30.—Dr. W. J. Turrell: The Therapeutic Activity of the Galvanic Current.

SATURDAY, JANUARY 22.

BRITISH MYCOLOGICAL SOCIETY (in Botanical Department, University College, Gower Street), at 11 a.m.—F. T. Brooks: Some Tomato Fruit Diseases.—Dr. E. J. Butler: The Imperial Bureau of Mycology.—Miss G. Lister: A New Genus of the Mycetozoa from Japan.—T. Petch: Thread Blights.—Dr. H. Wager: The Action of Gravity on the Fungi.—J. Ramsbottom: Exhibit of Lantern Slides showing Fungal Infection of Orchid Seeds.

PHYSIOLOGICAL SOCIETY (at King's College), at 4.

MONDAY, JANUARY 24.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. A. Keith: The Principles of Craniology applied to Clinical and Racial Problems.

ROYAL SOCIETY OF ARTS, at 8.—A. E. L. Chorlton: Aero Engines (Howard Lectures).

ROYAL SOCIETY OF MEDICINE (Odontology Section), at 8.—Sir Frank Colyer: Old Dental Instruments.

ROYAL GEOGRAPHICAL SOCIETY (at Æolian Hall), at 8.30.—F. C. Cornell: The Lower Reaches of the Orange River.

MEDICAL SOCIETY OF LONDON, at 8.30.—Dr. A. Feiling: Multiple Neuritis.

TUESDAY, JANUARY 25.

ROYAL HORTICULTURAL SOCIETY, at 3.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Sir Gerald P. Lenox-Conyngham: The Progress of Geodesy in India.

INSTITUTION OF CIVIL ENGINEERS, at 5.30.—Resumption of Discussion on paper by Prof. T. B. Abell on Reinforced Concrete for Ship-Construction.—G. Ellson: Cannon Street Bridge Strengthening.—F. W. A. Handman: Reconstruction of a Viaduct.

ROYAL SOCIETY OF MEDICINE (Medicine Section), at 5.30.—Dr. P. J. Cammidge: Some Observations Bearing on the Etiological Classification of Diabetes Mellitus.—Dr. E. P. Poulton: The Treatment of Peptic Ulcer by Means of Gastric and Gastro-duodenal Tubes.

ROYAL PHOTOGRAPHIC SOCIETY OF GREAT BRITAIN, at 7.—Dr. F. M. D. Berry: Serbia and Jugo-Slavia Before the War and After.

ROYAL ANTHROPOLOGICAL INSTITUTE (Annual General Meeting), at 8.15.

WEDNESDAY, JANUARY 26.

ROYAL SOCIETY OF ARTS, at 4.30.—A. Abbott: The Origin and Development of the Research Associations Established by the Department for Scientific and Industrial Research.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. A. Keith: The Principles of Craniology applied to Clinical and Racial Problems.

INSTITUTION OF CIVIL ENGINEERS (Students' Meeting), at 6.—F. E. Wentworth-Sheilds: The Lay-out and Equipment of Docks (Vernon-Harcourt Lecture).

THURSDAY, JANUARY 27.

ROYAL INSTITUTION OF GREAT BRITAIN, at 3.—Dr. A. Harden: Biochemistry (Vitamines).

ROYAL SOCIETY, at 4.30.—*Probable Papers.*—K. Sassa and Prof. C. S. Sherrington: The Myogram of the Flexor-reflex evolved by a Single Break-shock.—Sir Almroth Wright: "Interaction" Between Albuminous Substances and Saline Solutions.—Dr. S. Russ, Dr. Helen Chambers, and Gladwys M. Scott: The Local and Generalised Action of Radium and X-rays upon Tumour Growth.

ROYAL SOCIETY OF MEDICINE (Balneology and Climatology Section), at 5.30.—Dr. G. L. Pardington: Advancing Years and Balneotherapy (Presidential Address).

INSTITUTION OF ELECTRICAL ENGINEERS (at Institution of Civil Engineers), at 6.—G. A. Juhlin: Temperature Limits of Large Alternators.

ROYAL SOCIETY OF MEDICINE (Urology Section), at 8.30.—T. Walker: Obstruction After Suprapubic Prostatectomy and an Open Operation for its Prevention.

FRIDAY, JANUARY 28.

ASSOCIATION OF ECONOMIC BIOLOGISTS (at Imperial College of Science), at 2.30.—Dr. L. Lloyd: Greenhouse White Fly and its Control.—W. B. Brierley: Personal Impressions of Some American Biologists and their Problems.

ROYAL SOCIETY OF MEDICINE (Study of Disease in Children), at 5.—Dr. P. Parkinson: A Case of Patent Ductus Arteriosus.

ROYAL COLLEGE OF SURGEONS OF ENGLAND, at 5.—Prof. A. Keith: The Principles of Craniology applied to Clinical and Racial Problems.

PHYSICAL SOCIETY OF LONDON (at Imperial College of Science), at 5.—Prof. H. Nagaoka: The Magnetic Separation of the Neon Lines and Runge's Rule.—Capt. E. V. Appleton: A Method of Demonstrating the Retro-active Property of a Triode Oscillator.—Dr. D. Owen and R. M. Archer: The Quickness of Response of Current to Voltage in a Thermionic Tube.

ROYAL SOCIETY OF MEDICINE (Epidemiology and State Medicine Section), at 8.30.—Dr. A. S. M. MacGregor: Some Features of Current Small-pox in Glasgow.

ROYAL INSTITUTION OF GREAT BRITAIN, at 9.—Sir James Dewar: Cloudland Studies

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